

FIG. 1

The diagram illustrates a hydrofoil system 50 operating in a fluid flow R, indicated by an upward arrow. A vertical line 18 is positioned to the left of the foils, with two arrows 48 pointing to the right, representing a transverse flow or control input. A horizontal line 56 is at the top. The system consists of four foils, each labeled 22 and 22'. The top foil has a leading edge 28 and a trailing edge 30. A dashed line 32 is shown near the trailing edge, and a solid line 34 is shown near the leading edge. The middle two foils are connected to the top foil by wavy lines 64 and 66. The bottom foil is connected to the middle foils by wavy lines 64 and 66, and it has a dashed line 68 near its leading edge. Velocity vectors are shown near the bottom foil: V_x (horizontal), V_r (vertical), and U (diagonal). The label 50 is repeated four times, once for each foil.

FIG. 3

05090" TE642850

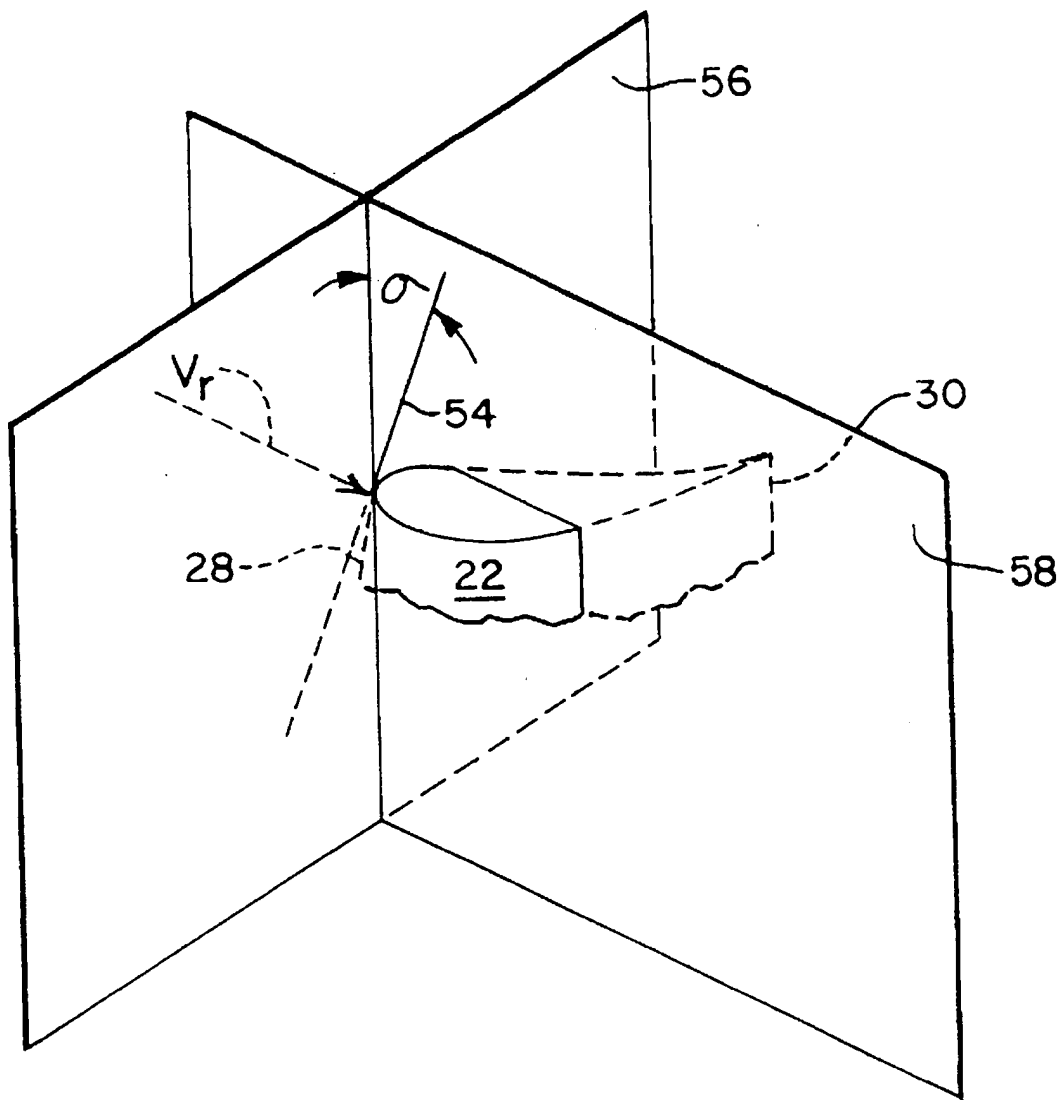


FIG. 4

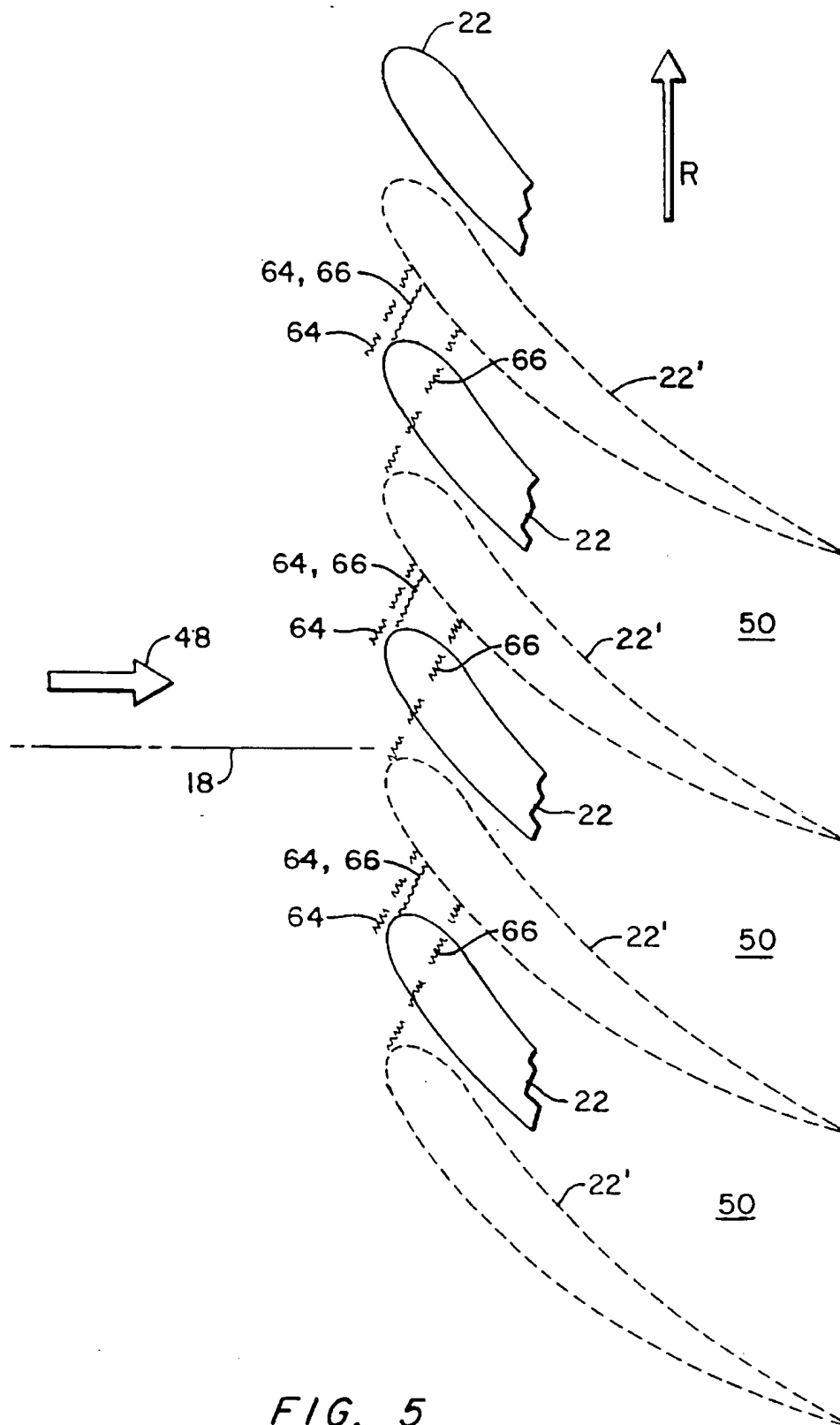


FIG. 5

FIG. 6

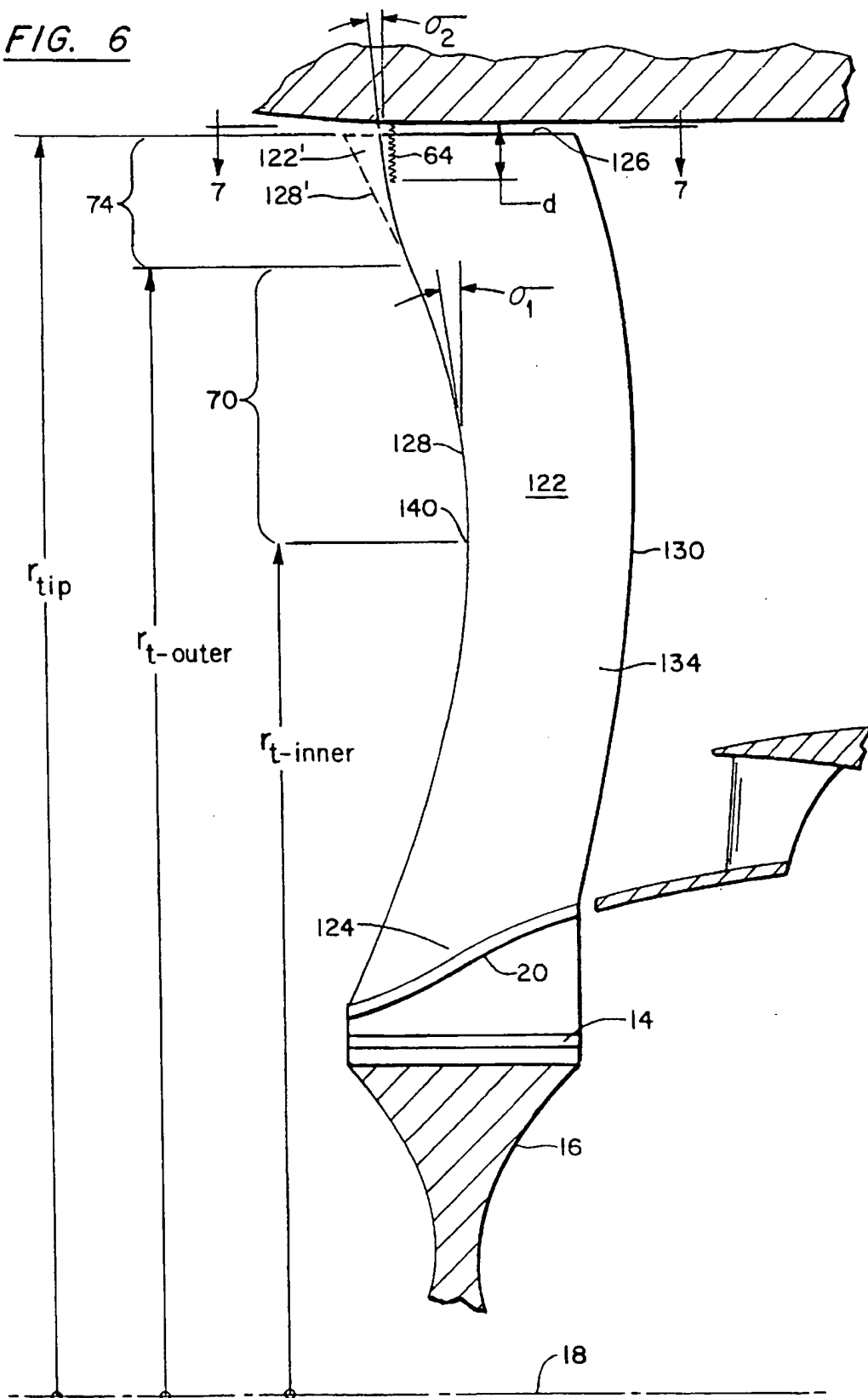


FIG. 7

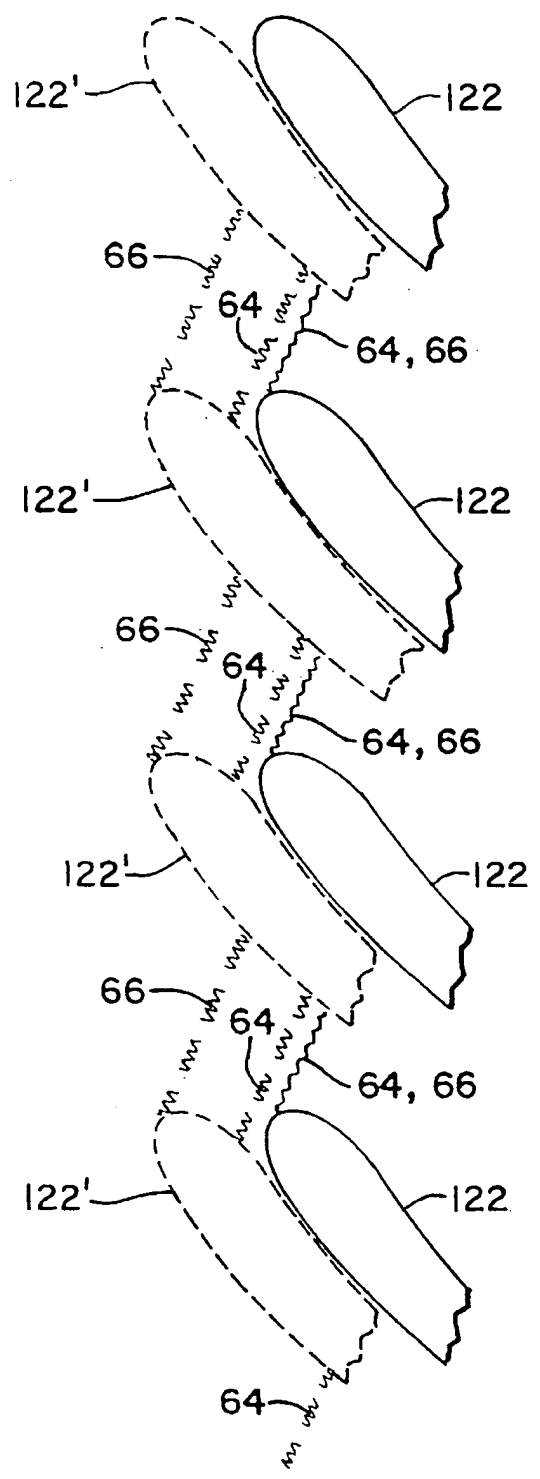
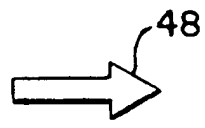


FIG. 7